<u>Claims</u>

1	1 A wireless telephone system comprising:
2	\(\alpha \) a mobile wireless telephone member including:
3	short range radio frequency communication means
4	for transmitting and receiving voice data over a
5	short range;
6	\ long range radio frequency communication means
7	for \backslash transmitting and receiving voice data over a
8	long\range;
9	stationary communication means for receiving and
10	transmitting voice data from and to said mobile wireless
11	member voice data over said short range; and
12	stationary communication means for respectively
13	receiving and transmitting voice data from and to said
14	mobile wireless member voice data over said long range.

- 1 2. The wireless telephone system of claim 1 further
- 2 including means for determining whether said mobile
- 3 wireless telephone member is outside said short range
- 4 when said member is receiving or transmitting said voice
- 5 data.
- 1 3. The wireless telephone system of claim 2 further
- 2 including means for dommunicating with said mobile
- 3 wireless telephone member through said stationary short
- 4 range radio frequency means whenever said member is
- 5 determined not to be outside of said short range.

- 1 4. The wireless telephone system of claim 3 further
- 2 including means for communicating with said mobile
- wireless telephone member through said stationary long
- 4 range radio frequency means whenever said member is
- 5 determined to be outside of said short range.

wireless telephone system comprising: 1 2 a mobile wireless telephone member including: 3 short range radio frequency communication means fdr transmitting and receiving voice data over a 4 5 short range; long range radio frequency communication means 6 for \transmitting and receiving voice data over a 7 8 long\range; a cordless base member, wired into a wired telephone 9 network, for receiving and transmitting from and to said 10 mobile wireless member voice data over said short range; 11

stationary communication means for respectively receiving and transmitting to and from said mobile wireless member voice data over said long range.

- 1 6. The wireless telephone system of claim 5 further
- 2 including means for determining whether said mobile
- 3 wireless telephone member is outside said short range
- 4 when said member is receiving or transmitting said voice
- 5 data.

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and

- 1 7. The wireless telephone system of claim 6 further
- 2 including means for communicating with said mobile
- 3 wireless telephone member through said cordless base
- 4 member whenever said member is determined not to be
- 5 outside of said short range.

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The wireless telephone system of claim 6 wherein said stationary communication means for respectively receiving and transmitting to and from said mobile wireless member voice data over said long range and includes a wireless telephone area base station wired into said wired telephone network.

9. The wireless telephone system of claim 8 further including means for communicating with said mobile wireless telephone member through said wireless telephone area base station whenever said member is determined to be outside of said short range.

10. The wireless telephone system of claim 9 wherein said means for determining whether said mobile telephone member is outside said short range includes:

means responsive to the initiation of a telephone call for first determining whether a radio frequency communication from said cordless base member can reach said mobile member, and

means responsive to a determination that said communication from said base member cannot reach said mobile member for then automatically switching to radio frequency communication with said mobile member through said wireless telephone area base station.

- 1 11. The wireless telephone system of claim 9 wherein said wireless telephone system is a cellular phone
- 3 system, and said telephone base station area is in an
- 4 area cell within said cellular system.

- 1 12. The wireless telephone system of claim 9 further
- 2 including means in said mobile wireless member enabling a
- 3 telaphone user to switch between said short range and
- 4 long range communication means whenever said member is
- 5 not outside of said short range.
- 1 13. The wireless telephone system of claim 12 further
- 2 including means in said wired telephone network for
- 3 tracking the respective times of telephone communications
- 4 through said short range and said long range means.

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In a wireless telephone system comprising a mobile 2 witeless telephone member short range radio frequency communication means for transmitting and receiving voice 3 4 data\over a short range, and long range radio frequency communication means for transmitting and receiving voice 5 data dver a long range; stationary communication means for receiving and transmitting voice data from and to 7 8 said mobile wireless member voice data over said short range; and stationary communication means for 9 respectively receiving and transmitting voice data from 10 and to said mobile wireless member voice data over said 11 long range a method for determining whether said 12 communication will be short range or long range 13 comprising: 14

determining whether said mobile wireless telephone member is outside said short range when said member is receiving or transmitting said voice data, and

communicating with said mobile wireless telephone member through said short range radio frequency communication whenever said member is determined not to be outside of said short range.

- The method of claim 14 further including the step of 1
- communicating with said mobile wireless telephone member 2
- through said long range radio frequency communication 3
- whenever\said member is determined to be outside of said 4
- 5 short range.

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1 \ 16. The method of claim 15 wherein said step of 2 determining whether said mobile telephone member is 3 outside said short range includes:

responsive to the initiation of a telephone call, first determining whether a radio frequency communication from said stationary communication means for receiving and transmitting voice data from and to said mobile wireless member voice data over said short range can reach said mobile member, and

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responsive to a determination that said communication from said stationary communication means over said short range cannot reach said mobile member, then automatically switching to radio frequency communication with said mobile member through said stationary communication means for said long range communication.

- 1 17. The method of claim 16 further including the step of enabling a telephone user to switch between said short range and long range communication whenever said member
- 4 is not outside of said short range.
- 1 18. The method of claim 17 further including the step of
- 2 tracking the respective times of telephone communications
- 3 through \said short range and said long range, whereby
- 4 telephone usage may be billed at different rates.

- A mobile wireless telephone member comprising: 1 wireless means for communicating with a cordless telephone station within a short distance range; and 3 means for communicating with a station in a cell of 4 a cellular telephone system over a longer distance 5 outside of said short distance range.
- The hobile wireless telephone member of claim 19 1 20. 2 wherein said cordless telephone station includes a
- cordless telephone base. 3
- The mobile wireless telephone member of claim 20 1
- wherein said cordless telephone station is wired into a 2
- wired telephone \network. 3
- The mobile wireless telephone member of claim 19 1
- wherein said station in a cell of said cellular system is 2
- wired into a wired telephone network.